**ELEMENT14* PDMS 5-A**

# SAFETY DATA SHEET

## 1. Identification of the substance or mixture and of the supplier

**GHS Product identifier:** ELEMENT14* PDMS 5-A

**Recommended use of the chemical and restrictions on use**

**Recommended use:** Industrial use Component in personal care products
**Recommended restrictions:** Not known.

**Supplier's details**

**Manufacturer:** : Momentive Performance Materials GmbH
Chempark Leverkusen Gebaeude V7
DE - 51368 Leverkusen
Germany

**Distributor Information** : DC Products Pty Limited
Unit 117/45 Gilby Road
Mount Waverley 3149
Australia

**Contact person** : viren.kumar@dcproducts.com.au

**Telephone** : +613 9558 8898

**Emergency telephone number :** +61 418 529 118

## 2. Hazard(s) identification

**GHS classification of substance or mixture, and national or regional information:**
Not classified

**GHS label elements**

**Hazard symbol(s):** No symbol

**Signal Word:** none

**Hazard Statement(s):** Not applicable

**Precautionary statement(s):**

**Prevention:** Not applicable

**Response:** Not applicable

**Storage:** Not applicable

**Disposal:** Not applicable

**Other hazards which do not result in GHS classification:** None.

## 3. Composition/information on ingredients

**ELEMENT14* PDMS 5-A**

**Chemical nature:** Polydimethylsiloxane

**Substances**

**Impurities and stabilizing additives which contribute to the hazard**

| Chemical Identity | CAS number | Concentration* |
|---|---|---|
| Octamethylcyclotetrasiloxane | 556-67-2 | 0,1 - 1% |

* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

**Composition Comments:** The components are not hazardous or are below required disclosure limits.

## 4. First-aid measures

**Description of necessary first-aid measures**

**Inhalation:** IF INHALED: Remove person to fresh air and keep comfortable for breathing.

**Skin Contact:** Wash area with soap and water. Get medical attention if symptoms occur.

**Eye contact:** Rinse immediately with plenty of water. Get medical attention if symptoms occur.

**Ingestion:** Drink plenty of water. Do NOT induce vomiting. Get medical attention if symptoms occur.

**Symptoms caused by exposure**

**Symptoms:** Treatment is symptomatic and supportive.

**Hazards:** No data available.

**Medical attention and special treatment**

**Treatment:** Not relevant.

## 5. Fire-fighting measures

**General Fire Hazards:** Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

**Means of fire extinguishing**

**Suitable extinguishing media:** Extinguish with foam, carbon dioxide, dry powder or water fog.

**Unsuitable extinguishing media:** Avoid water in straight hose stream; will scatter and spread fire.

| | |
|---|---|
| **Specific hazards arising from the chemical:** | In case of fire, carbon monoxide and carbon dioxide may be formed. Use water spray to keep fire-exposed containers cool. |

**Special protective equipment and precautions for firefighters**

| | |
|---|---|
| **Special fire fighting procedures:** | Keep away from combustible material. When using do not smoke. Do not empty into drains. |
| **Special protective equipment for fire-fighters:** | Wear self-contained breathing apparatus and protective clothing. |
| **Hazchem Code:** | No data available. |

## 6. Accidental release measures

| | |
|---|---|
| **Personal precautions, protective equipment and emergency procedures:** | Keep container closed. Avoid contact with skin and eyes. Attention: Not for injection into humans. |
| **Environmental Precautions:** | Do not allow runoff to sewer, waterway or ground. |
| **Methods and material for containment and cleaning up:** | Collect spillage with granulates, sawdust, rags or other absorbent. Shovel up and place in a container for salvage or disposal. |

## 7. Handling and storage

| | |
|---|---|
| **Precautions for safe handling:** | Good personal hygiene is necessary. Wash hands and contaminated areas with water and soap before leaving the work site. |
| **Conditions for safe storage, including any incompatibilities:** | Keep container tightly closed in a cool, well-ventilated place. |

## 8. Exposure controls/personal protection

**Control Parameters**

**Occupational Exposure Limits**

None of the components have assigned exposure limits.

**Biological Limit Values**

None of the components have assigned exposure limits.

| | |
|---|---|
| **Appropriate Engineering Controls:** | Eye wash facilities and emergency shower must be available when handling this product. Ventilation and other forms of engineering controls are preferred for controlling exposures. Respiratory protection may be needed for non-routine or emergency situations. |

**Individual protection measures, such as personal protective equipment**

| | |
|---|---|
| **Eye/face protection:** | Safety glasses with side shields |
| **Skin Protection** | |
| **Hand Protection:** | Chemical resistant gloves |
| **Other:** | Wear suitable protective clothing and eye/face protection. |

| | |
|---|---|
| **Respiratory Protection:** | Wear suitable respiratory protection. |
| **Hygiene measures:** | Avoid contact with eyes, skin, and clothing. Wash hands after handling. When using do not eat, drink or smoke. |

## 9. Physical and chemical properties

| | |
|---|---|
| **Appearance** | |
| **Physical state:** | liquid |
| **Form:** | liquid |
| **Color:** | Colorless |
| **Odor:** | Odorless |
| **Odor threshold:** | No data available. |
| **pH:** | Not applicable |
| **Melting point/freezing point:** | ca. -100 °C |
| **Initial boiling point and boiling range:** | No data available. |
| **Flash Point:** | > 120 °C |
| **Evaporation rate:** | No data available. |
| **Flammability (solid, gas):** | No data available. |
| **Upper/lower limit on flammability or explosive limits** | |
| **Flammability limit - upper (%):** | No data available. |
| **Flammability limit - lower (%):** | No data available. |
| **Explosive limit - upper (%):** | No data available. |
| **Explosive limit - lower (%):** | No data available. |
| **Vapor pressure:** | 1,33 hPa (20 °C) |
| **Vapor density:** | > 1,0 |
| **Density:** | 0,916 g/cm3 (20 °C) |
| **Relative density:** | No data available. |
| **Solubility(ies)** | |
| **Solubility in water:** | Insoluble |
| **Solubility (other):** | Soluble in toluene |
| **Partition coefficient (n-octanol/water) Log Pow:** | No data available. |
| **Auto-ignition temperature:** | No data available. |
| **Decomposition temperature:** | No data available. |
| **SADT:** | No data available. |
| **Viscosity, dynamic:** | 5 mPa·s (20 °C) |
| **Viscosity, kinematic:** | No data available. |
| **Specific gravity:** | No data available. |

## 10. Stability and reactivity

| | |
|---|---|
| **Reactivity:** | No data available. |
| **Chemical Stability:** | Material is stable under normal conditions. |

| | |
|---|---|
| **Possibility of hazardous reactions:** | Hazardous polymerisation does not occur. |
| **Conditions to avoid:** | Keep away from heat, sparks and open flame. |
| **Incompatible Materials:** | None known. |
| **Hazardous Decomposition Products:** | In case of fire, gives off (emits): Carbon dioxide Silicon dioxide. Measurements at temperatures above 150°C in presence of air (oxygen) have shown that small amounts of formaldehyde are formed due to oxidative degradation. |

## 11. Toxicological information

**Information on likely routes of exposure**

| | |
|---|---|
| **Inhalation:** | No data available. |
| **Skin Contact:** | No data available. |
| **Eye contact:** | No data available. |
| **Ingestion:** | No data available. |

**Symptoms related to the physical, chemical and toxicological characteristics**

| | |
|---|---|
| **Inhalation:** | No data available. |
| **Skin Contact:** | No data available. |
| **Eye contact:** | No data available. |
| **Ingestion:** | No data available. |

**Information on toxicological effects**

**Acute toxicity**

**Oral**

| | |
|---|---|
| **Product:** | LD 50 (Rat), (male and female) > 5.000 mg/kg Literature Reference |
| **Specified substance(s):** | |
| Octamethylcyclotetrasiloxane | LD 50 (Rat): 4.800 mg/kg (OECD-Guideline 401 (Acute Oral Toxicity)) Not classified |

**Dermal**

| | |
|---|---|
| **Product:** | LD 50 (Rabbit) > 10.000 mg/kg<br>Literature Reference |
| **Specified substance(s):** | |
| Octamethylcyclotetrasiloxane | LD 50 (Rat): > 2.400 mg/kg (OECD Test Guideline 402)<br>Not classified |

**Inhalation**

| | |
|---|---|
| **Product:** | Not classified for acute toxicity based on available data. |
| **Specified substance(s):** | |
| Octamethylcyclotetrasiloxane | LC50 (Rat, 4 h): 36 mg/l (OECD Test Guideline 403) |

**Repeated dose toxicity**

| | |
|---|---|
| **Product:** | (Mouse, Oral, 5 d): 25 mg/kg No adverse effects due to ingestion are expected. |

**Skin irritation and corrosion**

| | |
|---|---|
| **Product:** | (Rabbit): No skin irritation Literature Reference |

**Serious Eye Damage/Eye Irritation**

| | |
|---|---|
| **Product:** | (Rabbit): No eye irritation Literature Reference |

**Respiratory or Skin Sensitization**

| | |
|---|---|
| **Product:** | Magnusson-Kligmann, OECD-Guideline 406 (Skin Sensitisation) (Guinea Pig): negative Did not cause sensitization on laboratory animals. |

**Carcinogenicity**

| | |
|---|---|
| **Product:** | No data available. |

**Notifiable Carcinogenic Substances**

No carcinogenic components identified
No carcinogenic components identified

**Prohibited Carcinogenic Substances**

No carcinogenic components identified
No carcinogenic components identified

**IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:**

No carcinogenic components identified
No carcinogenic components identified

**ACGIH Carcinogen List:**

No carcinogenic components identified
No carcinogenic components identified

**Germ Cell Mutagenicity**

**In vitro**

| | |
|---|---|
| **Product:** | Ames-Test: negative (not mutagenic) Literature Reference |

**In vivo**

| | |
|---|---|
| **Product:** | Dominant lethal assay (OECD 478) (Mouse): negative (not mutagenic) |

**Reproductive toxicity**

| | |
|---|---|
| **Product:** | No data available. |

**Specific Target Organ Toxicity - Single Exposure**

| | |
|---|---|
| **Product:** | No data available. |

**Specific Target Organ Toxicity - Repeated Exposure**

| | |
|---|---|
| **Product:** | No data available. |

**Aspiration Hazard**

| | |
|---|---|
| **Product:** | Not classified |
| **Other effects:** | No data available. |
| **Specified substance(s):** | |
| Octamethylcyclotetrasiloxane | Octamethylcyclotetrasiloxane (D4) Ingestion: Rodents given large doses via oral gavage of Octamethylcyclotetrasiloxane (1600mg/kg/day,14 days), developed increased liver weights relative to unexposed control animals due to hepatocellular hyperplasia (increased number of liver cells which appear normal) as well as hypertrophy (increased cell size). Inhalation: In inhalation studies, laboratory rodents exposed to Octamethylcyclotetrasiloxane (300 ppm five days/week, 90 days) developed increased liver weights in female animals relative to unexposed control animals. When the exposure was stopped, liver weights returned to normal. Microscopic examination of the liver cells did not show any evidence of pathology. This response in rats, which does not affect the animal's health, is well-documented and widely recognized. It is related to an increase of liver enzymes that metabolize and eliminate a material from the body. The increased liver weight reverses even while the D4 exposure continues. The finding is not adverse, but is considered a natural adaptive change in rats, and does not represent a hazard to humans. Inhalation studies utilizing laboratory rabbits and guinea pigs showed no effects on liver weights. Inhalation exposures typical of industrial usage (5-10 ppm) showed no toxic effects in rodents. Range finding reproductive studies were conducted (whole body inhalation, 70 days prior to mating, through mating, gestation and lactation), with D4. Rats were exposed to 70 and 700 ppm. In the 700 ppm group, there was a statistically significant reduction in mean litter size and in implantation sites. No D4 related clinical signs were observed in the pups and no exposure related pathological findings were found. A two-year, combined chronic/carcinogenicity study, during which rats were exposed to D4 by inhalation, data showed a statistically significant increase in a benign uterine tumor in female rats exposed at the highest level--a level much higher than the low levels that consumers or workers may encounter. An expert panel of independent scientists who have reviewed the results of this research concur that the finding seen in the two-year study occurred through a biological pathway that is specific to the rat and is not relevant to humans. Therefore, this observed effect does not indicate a potential health hazard to humans. In developmental toxicity studies, rats and rabbits were exposed to D4 at concentrations up to 700 ppm and 500 ppm, respectively. No teratogenic effects (birth defects) were observed in either study. |

## 12. Ecological information

**Ecotoxicity**

**Acute hazards to the aquatic environment**

**Fish**

| | |
|---|---|
| **Product:** | No data available. |

**Aquatic Invertebrates**

| | |
|---|---|
| **Product:** | No data available. |

**Chronic hazards to the aquatic environment**

**ELEMENT14* PDMS 5-A**

**Fish**
**Product:** No data available.

**Aquatic Invertebrates**
**Product:** No data available.

**Toxicity to Aquatic Plants**
**Product:** No data available.

**Persistence and Degradability**

**Biodegradation**
**Product:** No data available.

**BOD/COD Ratio**
**Product:** No data available.

**Bioaccumulative potential**

**Bioconcentration Factor (BCF)**
**Product:** No data available.

**Partition Coefficient n-octanol / water (log Kow)**
**Product:** No data available.

**Mobility**
**Mobility in soil:** No data available.

**Known or predicted distribution to environmental compartments**

| | |
|---|---|
| Octamethylcyclotetrasiloxane | No data available. |

**Other adverse effects:** No data available.

## 13. Disposal considerations

**General information:** Do not discharge into drains, water courses or onto the ground. See Section 8 for information on appropriate personal protective equipment.

**Disposal methods**

**Disposal instructions:** Dispose of waste at an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal. The generation of waste should be avoided or minimized wherever possible. The hazard and precautionary statements displayed on the label also apply to any residues left in the container.

**Contaminated Packaging:** Dispose of as unused product.

## 14. Transport information

**National Regulations**

**ADG**

Not regulated.

**International regulations**

**IATA**

Not regulated.

**IMDG**

Not regulated.

**Transport in bulk according to Annex II of MARPOL and the IBC Code**

Not applicable

**Special precautions for user:** This product is not regarded as dangerous goods according to the national and international regulations on the transport of dangerous goods. Keep away from foodstuffs and animal feed.

## 15. Regulatory information

**Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Poisons Schedule Number**

| | |
|---|---|
| AU SUSMP 2 | Poisons schedule number not allocated |
| AU SUSMP 3 | Poisons schedule number not allocated |
| AU SUSMP 4 | Poisons schedule number not allocated |
| AU SUSMP 5 | Poisons schedule number not allocated |
| AU SUSMP 6 | Poisons schedule number not allocated |
| AU SUSMP 7 | Poisons schedule number not allocated |
| AU SUSMP 8 | Poisons schedule number not allocated |
| AU SUSMP 9 | Poisons schedule number not allocated |
| AU SUSMP A | Poisons schedule number not allocated |
| AU SUSMP B | Poisons schedule number not allocated |

| | |
|---|---|
| AU SUSMP C | Poisons schedule number not allocated |
| AU SUSMP D | Poisons schedule number not allocated |
| AU SUSMP E | Poisons schedule number not allocated |
| AU SUSMP F | Poisons schedule number not allocated |
| AU SUSMP G | Poisons schedule number not allocated |
| AU SUSMP H | Poisons schedule number not allocated |
| AU SUSMP I | Poisons schedule number not allocated |
| AU SUSMP J | Poisons schedule number not allocated |
| AU SUSMP K | Poisons schedule number not allocated |
| AUSUSMPDS | Poisons schedule number not allocated |

**Notifiable Carcinogenic Substances**
Not Regulated

**Prohibited Carcinogenic Substances**
Not Regulated

**National Pollutant Inventory (NPI) substance reporting list**
Not Regulated

**Prohibited Substances (National Model Regulations for the Control of Workplace Hazardous Substances, Schedule 2 NOHSC:1005 (1994))**
Not Regulated

**Restricted Importation of Organochlorine Chemicals (Customs(Prohibited Imports) Regulations 1956, Schedule 9)**
Not Regulated

**Importation of Ozone Depleting Substances (Customs (Prohibited Imports) Regulations 1956, Schedule 10)**
Not Regulated

**High Volume Industrial Chemicals (HVIC)**
Not Regulated

**International regulations**

**Montreal protocol**

Not applicable

**Stockholm convention**

Not applicable

**Rotterdam convention**

Not applicable
Not applicable

**Kyoto protocol**

Not applicable

**Inventory Status:**

| | | |
|---|---|---|
| Australia AICS: | On or in compliance with the inventory | Remarks: None. |
| Canada DSL Inventory List: | On or in compliance with the inventory | Remarks: None. |
| EINECS, ELINCS or NLP: | On or in compliance with the inventory | Remarks: None. |
| Japan (ENCS) List: | On or in compliance with the inventory | Remarks: None. |
| China Inv. Existing Chemical Substances: | On or in compliance with the inventory | Remarks: None. |
| Korea Existing Chemicals Inv. (KECI): | On or in compliance with the inventory | Remarks: None. |
| Canada NDSL Inventory: | Not in compliance with the inventory. | Remarks: None. |
| Philippines PICCS: | On or in compliance with the inventory | Remarks: None. |
| US TSCA Inventory: | On or in compliance with the inventory | Remarks: None. |
| New Zealand Inventory of Chemicals: | On or in compliance with the inventory | Remarks: None. |
| Taiwan Chemical Substance Inventory: | On or in compliance with the inventory | Remarks: None. |

## 16.Other Information

| | |
|---|---|
| **Issue Date:** | 12.12.2018 |
| **Revision Date:** | No data available.No data available. |
| **Version #:** | 1.0 |
| **Further Information:** | Wear suitable protective clothing, gloves and eye/face protection. |
| **Key abbreviations or acronyms used:** | No data available. |
| **References:** | No data available. |

**ELEMENT14* PDMS 5-A**

**Disclaimer:**

**Notice to reader**

Unless otherwise specified in section 1.2, Momentive Products are intended for industrial application only.
They are not intended for specific medical applications, neither for long-lasting (> 30 days) implantation into the human body, injected or directly ingested, nor for the manufacture of multiple usable contraceptives.

**Further Information**

Wear suitable protective clothing, gloves and eye/face protection.
The information provided in this Safety Data Sheet is correct to the best ofour knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safehandling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.